

# DX NetOps

## Key Benefits

- **Boost service levels.** Harness the predictive insights and automation that enable you to automatically identify and remediate network issues before they affect users.
- **Reduce operations fatigue.** Gain the converged capabilities you need to obtain visibility, reduce noise, eliminate manual efforts and streamline workflows.
- **Protect your investments.** Extend your existing CA monitoring investments to support modern architectures while gaining advanced network visibility and AI and ML capabilities.

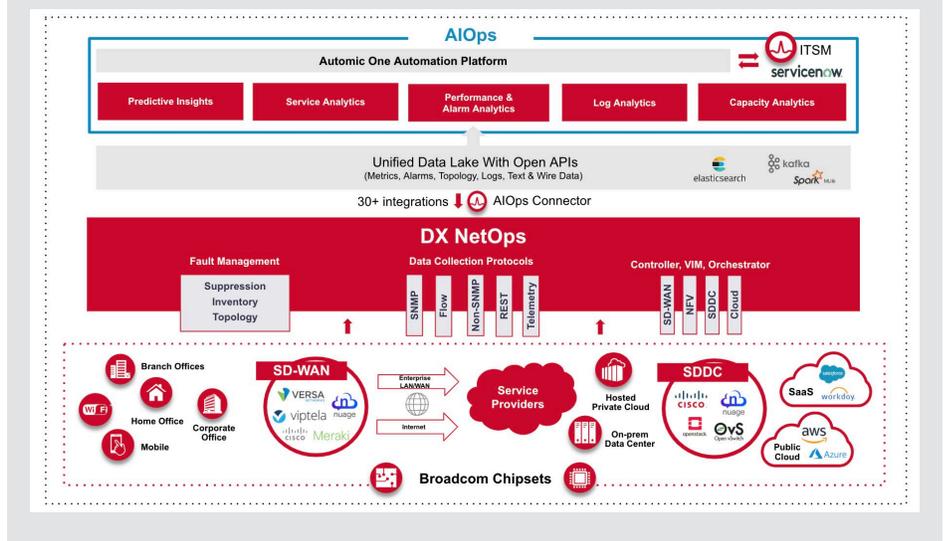
## Key Features

- **Cross domain AIOps insights.** Delivers algorithmic noise reduction, anomaly detection, and application-centric root cause topologies.
- **Correlated, normalized, and reliable network data.** Provides network-aware service, alarm, capacity and topology analytics.
- **Vendor agnostic modern architecture support.** Enables project monitoring from pilot to global deployment.
- **Optimized application policies.** Balance end user experience and cost.
- **Operational workflows.** Simplify large and complex SDN technologies.
- **Unified device availability, flow, faults and packet analysis.** Enable granular visibility.
- **Full stack, contextual, end-to-end workflows.** Provide for different roles in a single tool.

## At A Glance

DX NetOps by CA Technologies, a Broadcom company, improves your time to value through advanced AI capabilities and unified network visibility that delivers simplified NetOps intelligence into the user experience that traverses modern architectures. DX NetOps accomplishes this through high scale, unified network monitoring that enables full-stack analytics for assuring traditional and modern architectures. DX NetOps converts inventory, topology, device metrics, faults, flow and packet analysis into actionable intelligence for network operations teams. Complimented by our AIOps solution, DX NetOps enables IT teams to establish proactive, autonomous remediation capabilities across the applications, infrastructure, and networks that fuel superior user experiences.

**Figure 1: Comprehensive visibility coupled with AI and machine learning, DX NetOps unifies all your monitoring metrics in an easy to consume portal that scales to meet the dynamism of modern architecture and delivers end-to-end coverage across any network.**



## Business Challenges

Network teams today are facing a technological inflection point, networks everywhere are being re-architected to support cloud migrations and a demanding consumer. Teams struggle to keep pace with the tsunami of metrics that are generated by complex, modern architectures.

Teams also struggle to relieve stress on the WAN caused by highly sensitive applications, and to achieve a unified way to correlate alerts and to reduce noise while helping to drive network transformation.

## Solutions Overview

The new KPI is not network performance, it is the application experience. To succeed, network operations teams need holistic, contextual, and autonomous intelligence in a timely manner across domains to truly drive a phenomenal customer experience and reduce operational complexities.

With a combination of real-time monitoring and machine-learning driven analytics, DX NetOps comprehensively simplifies today's modern network complexity through high scale, unified network monitoring that enables full-stack analytics for assuring traditional, software-defined, and cloud architectures.

Leveraging more than 20+ years experience, the solution delivers a reliable user experience through a full suite of diagnostic capabilities including root cause, topologies, device metrics, faults, flow, packet, and controller analysis. The solution can assure the entire pathway to the cloud, covering the WAN, the delivery network, and the data center cloud.

The solution offers additional features including:

- A single pane operations interface that provides use-case-specific expert dashboards, multivendor metric families, business-hours focus, and versatile grouping for contextual analysis.
- Open third-party integration to help enable speedy extraction or ingestion from third-party software or custom applications to break down data silos.
- Optimized collection and storage to enable reliable assurance with customized control over what to monitor and how to monitor it.
- Multitenancy that offers an easy way to segregate network data according to customers, roles, and access rights.
- A complimentary AIOps analytics solution that provides full stack correlations, predictions, and algorithmic analysis of alarms, metrics, logs, and topologies.



Figure 2: Complimented by our AIOps platform, multiple topologies across applications, infrastructure, and networks are dynamically collapsed into an application-centric topology views for end-to-end condensed insight.

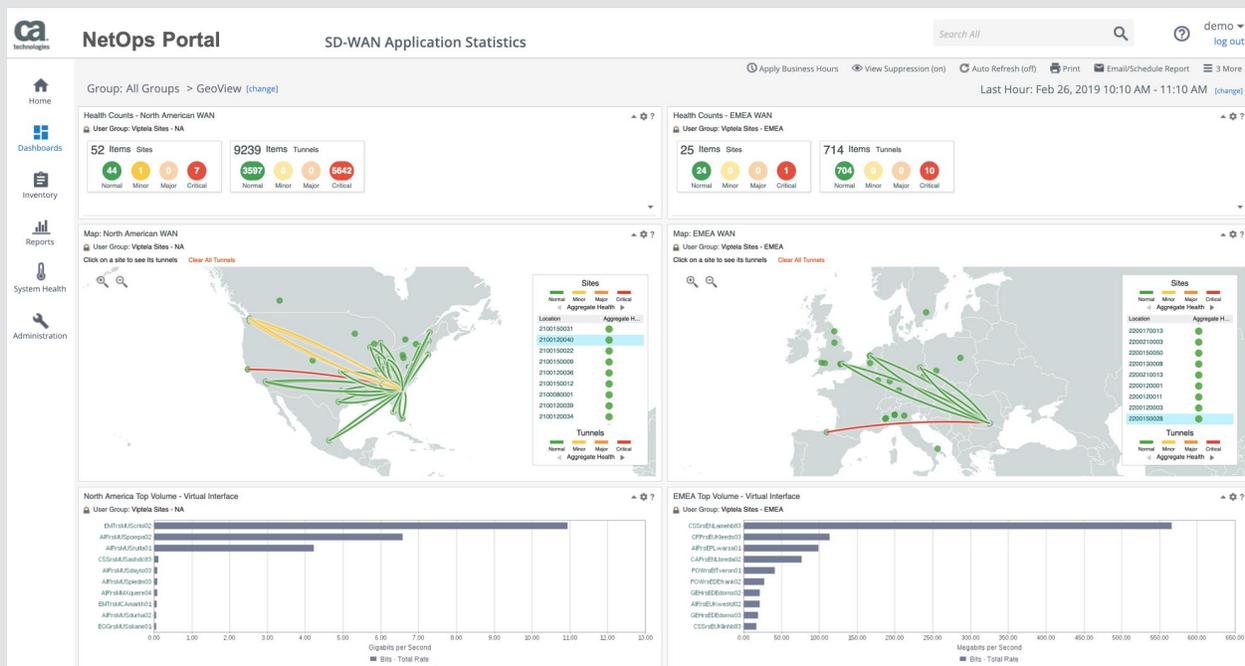


Figure 3: A single portal approach to vendor agnostic SD-WAN monitoring with comprehensive data visibility including advanced analysis of control-plane application policy performance.

## Critical Differentiators

The following features and capabilities set DX NetOps apart from other solutions:

- **AI and ML for networks.** Combined with AIOps, the solution features automated triage through algorithmic noise reduction, anomaly detection and application-centric root cause topology insights that can automatically discover key IT assets and map them to associated services, enabling more intelligent correlation and prioritization. The solution delivers topology information in a dynamic, graphical database that offers service-level visibility. You can also break higher-level services into discrete sub-services to facilitate ongoing monitoring and analysis.
- **Single pane operations monitoring.** Discover and monitor traditional and modern SDx networks, LAN, WAN, data centers, enterprise networks, service provider networks, and cloud architectures with expert dashboards for end-to-end assurance. The solution helps drive network-wide operational awareness with unified real-time alarms, historical performance, and flow views. Further, the solution eliminates swivel chair monitoring with easy contextual workflows for different personas across alarms, performances, and flows in a single tool.
- **End-to-end user experience visibility.** We are one of the few AIOps vendors with both NPMD and APM functionality, allowing end users seeking integration across application and network domains an opportunity for end-to-end visibility.

## Built for Today's Modern Operational Use Cases

Broadcom delivers solutions that fuel intelligent insights, providing the capabilities that NetOps teams need to manage their dynamic, hybrid environments that host the application experience. The DX NetOps unified platform supports today's modern network operations use cases:

- **AI and ML for networks.** Reduce MTTR with automated triage through algorithmic noise reduction, anomaly detection and application-centric root cause topology insights.
- **Single-pane hyperconnected operations.** Unified portal that provides edge-to-edge operational dashboards and visibility across traditional, software-defined and hybrid-cloud architectures.
- **Easy triage through intelligent analytics and root cause analysis.** Simplify complex modern network deployments and improve MTTR with in-context granular visibility.

## Built for Today's Modern Operational Use Cases (cont.)

- **WAN/SD-WAN.** Monitor WAN and SD-WAN networks to ensure site availability and policy-defined application delivery.
- **Data Center/SDDC.** East-west traffic analysis and visualizations for data center wide intelligence.
- **Hybrid cloud.** Deep packet and flow analysis and holistic visibility into private, public, or hybrid cloud workloads, network performance, and cloud-based wireless technologies.
- **Carrier networks.** Simplified intelligence of 4G/5G, NFV, cable and backhaul networks.
- **Future-proof with advanced scale.** Ensure successful digital transformation and confidently grow your network with an industry-leading big data monitoring and analytics platform.

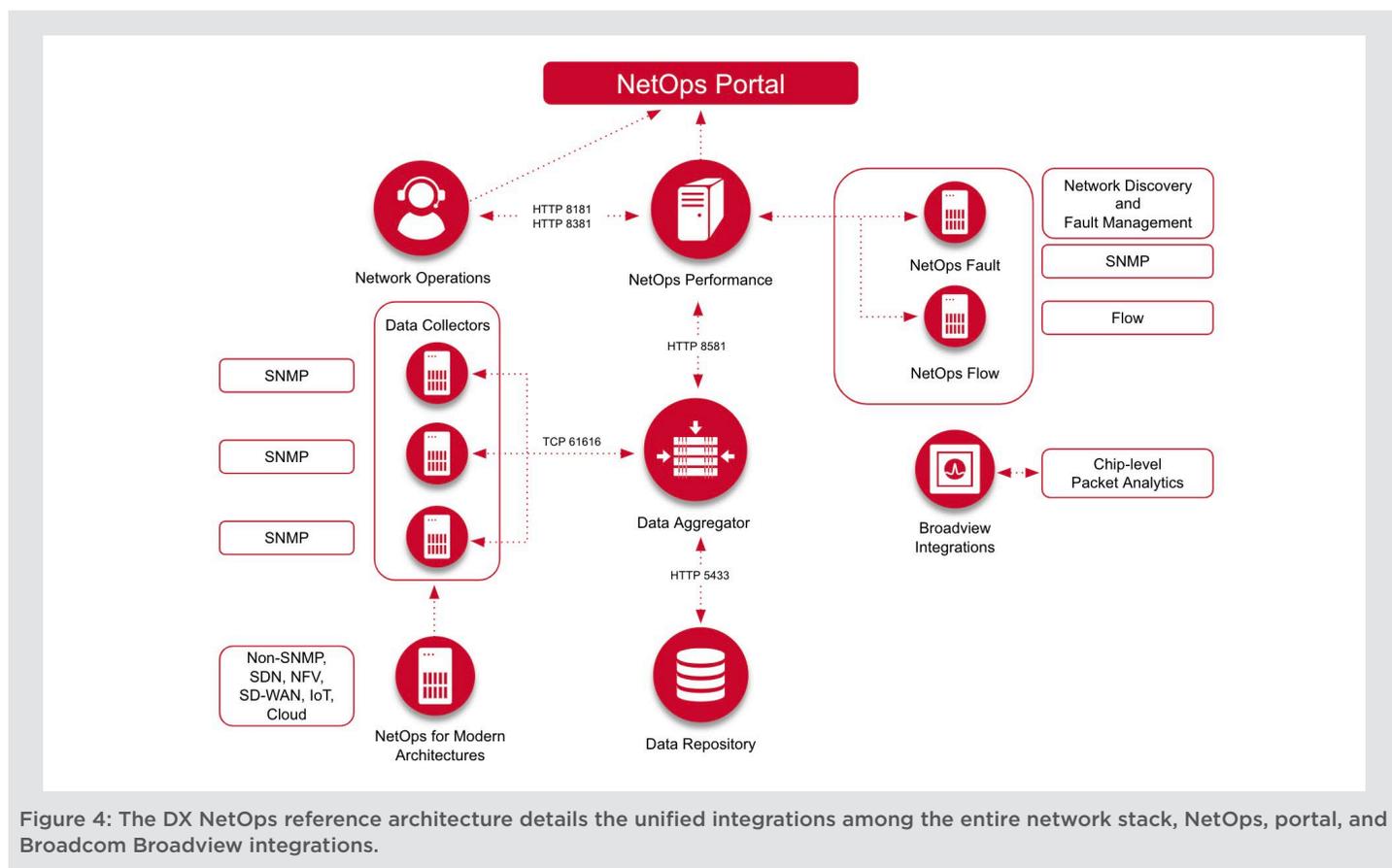


Figure 4: The DX NetOps reference architecture details the unified integrations among the entire network stack, NetOps, portal, and Broadcom Broadview integrations.